

M 5.4, 70 km W of Bulolo, Papua New Guinea

Origin Time: 2022-02-01 14:05:02 UTC (Wed 00:05:02 local)

Location: 7.1044° S 146.0055° E Depth: 178.1 km

Created: 6 days, 5 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.



Estimated Economic Losses

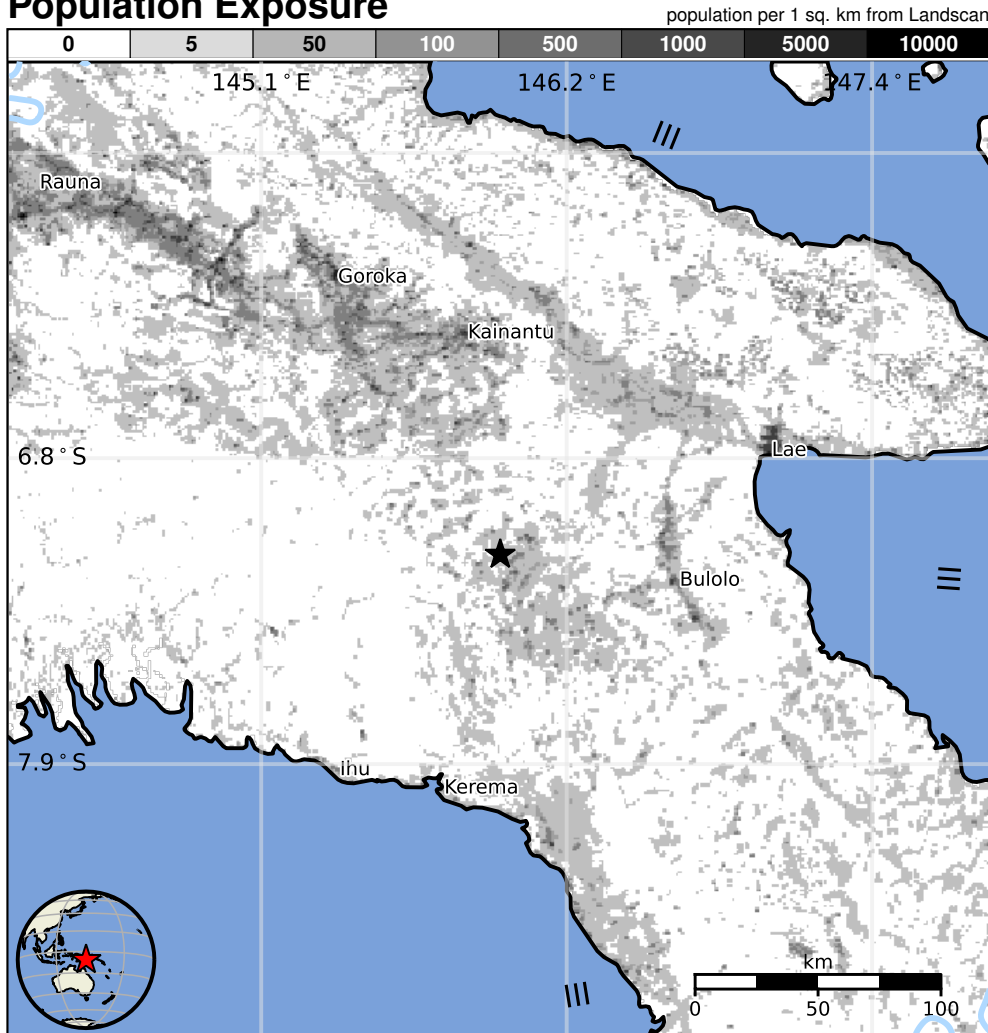


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		—*	2,641k*	50k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are a mix of vulnerable and earthquake resistant construction. The predominant vulnerable building types are informal (metal, timber, GI etc.) and unreinforced brick masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
2005-06-04	124	6.1	VII(27k)	1
1993-08-20	374	6.1	VIII(13k)	0
1993-10-16	139	6.3	VII(75k)	3

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
III	Bulolo	16k
III	Kainantu	9k
III	Kerema	6k
III	Lae	76k
III	Ihu	<1k
III	Goroka	19k
III	Wau	15k
III	Kundiawa	9k
III	Minj	<1k
III	Mount Hagen	34k
III	Kokoda	6k

PAGER content is automatically generated, and only considers losses due to structural damage.

Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/us7000ggxx#pager>

bold cities appear on map.

(k = x1000)

Event ID: us7000ggxx